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# **WATER SUPPLY OUTLOOK FOR MONTANA**



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FBI SECTION  
CURRENT SERIAL RECORDS

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**MONTANA AGRICULTURAL EXPERIMENT STATION**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**JAN. 1, 1976**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE  
SCS PHOTO AZ-5460

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR MONTANA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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MONTANA WATER SUPPLY OUTLOOK  
January 1, 1976

\* \* \* \* \*

\* Snow surveys at about one-third of the snow courses in \*  
\* Montana indicate the mountain snowpack is generally above \*  
\* average in most drainages. Below average snowpack exists \*  
\* over much of the Flathead River basin. Some snow courses \*  
\* in the Upper Yellowstone, Bitterroot, and Upper Clark Fork \*  
\* drainages have highest January 1 water content on record. \*  
\*  
\* Soils under the mountain snowpack are generally wetter \*  
\* than normal. \*  
\*  
\* Spring and summer streamflow should be average or above \*  
\* in most drainages unless there is a major change in \*  
\* weather patterns over the next few months. \*  
\*  
\* \* \* \* \*

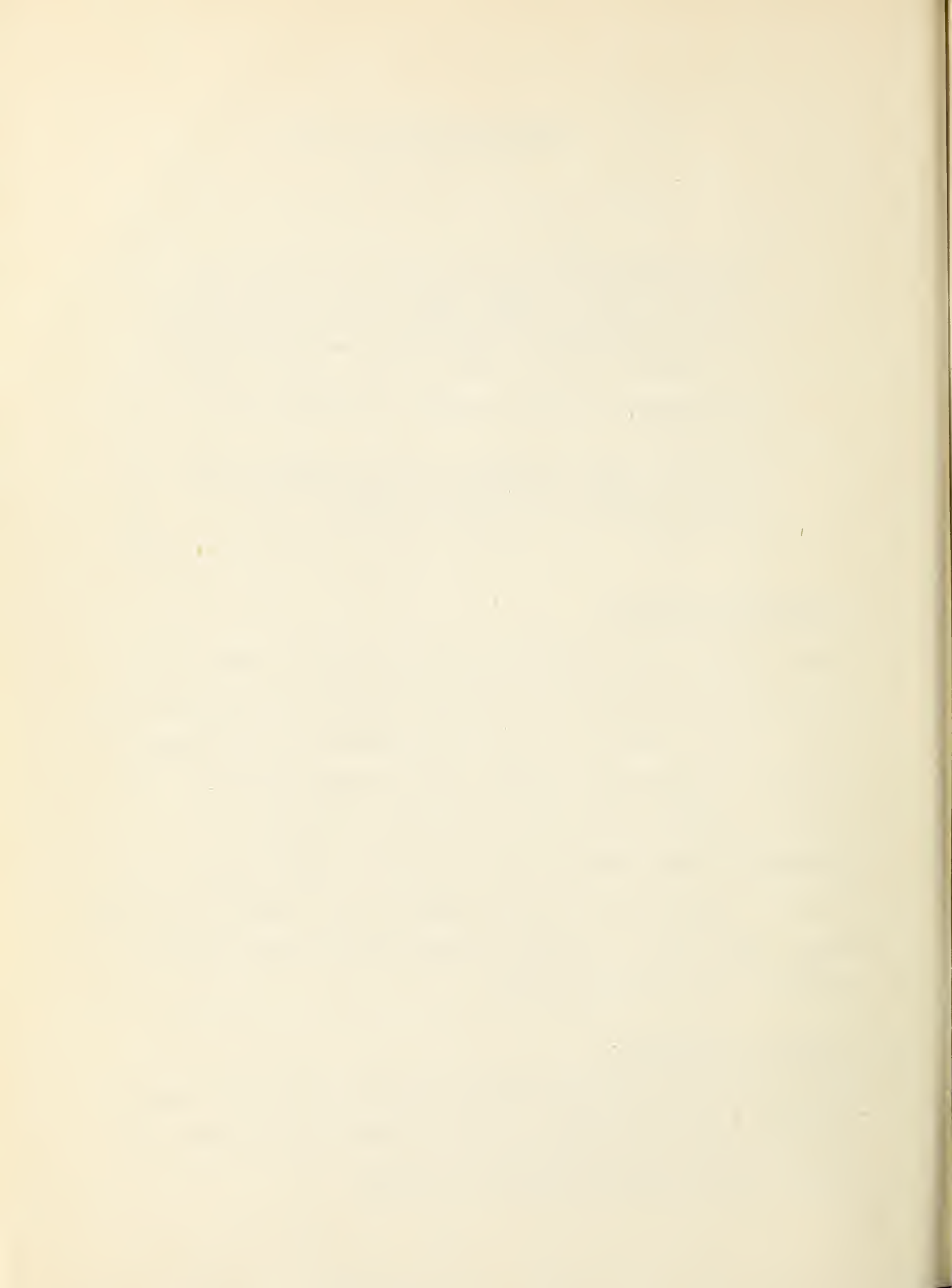
COLUMBIA RIVER DRAINAGE

Snow - The early season snowpack is extremely variable. Below average amount of water is stored in the snowpack in parts of the Flathead River Basin. The snow conditions increase percentagewise to record amounts in portions of the Bitterroot and Upper Clark Fork River headwaters. The Kootenai drainage in Montana has above average snow cover.

Streamflow - Volume forecasts are not issued until after February 1 snow surveys. However, based on current snowpack and soil moisture conditions, above average runoff is expected in southern area streams decreasing to average or below in Flathead Basin.

MISSOURI RIVER DRAINAGE

Snow - The mountain snowpack is generally above average in all drainages. Some deficiencies are noted in the lower elevations where snowpack was reduced by warm temperatures earlier in December.



#### MISSOURI RIVER DRAINAGE (Continued)

Streamflow - Forecasts of probable spring and summer streamflow will be issued after February 1 snow surveys. Based on current conditions, streamflow should be above average in most southern and central Montana tributaries and near average in northern parts of the state.

#### YELLOWSTONE RIVER DRAINAGE

Snow - Recent surveys indicate above average snowpack in all areas with record amounts in higher elevations of the Absaroka and Beartooth Mountains.

Streamflow - Above average runoff can be expected from all tributaries based on current conditions. Volume forecasts will be issued after February 1 snow surveys.

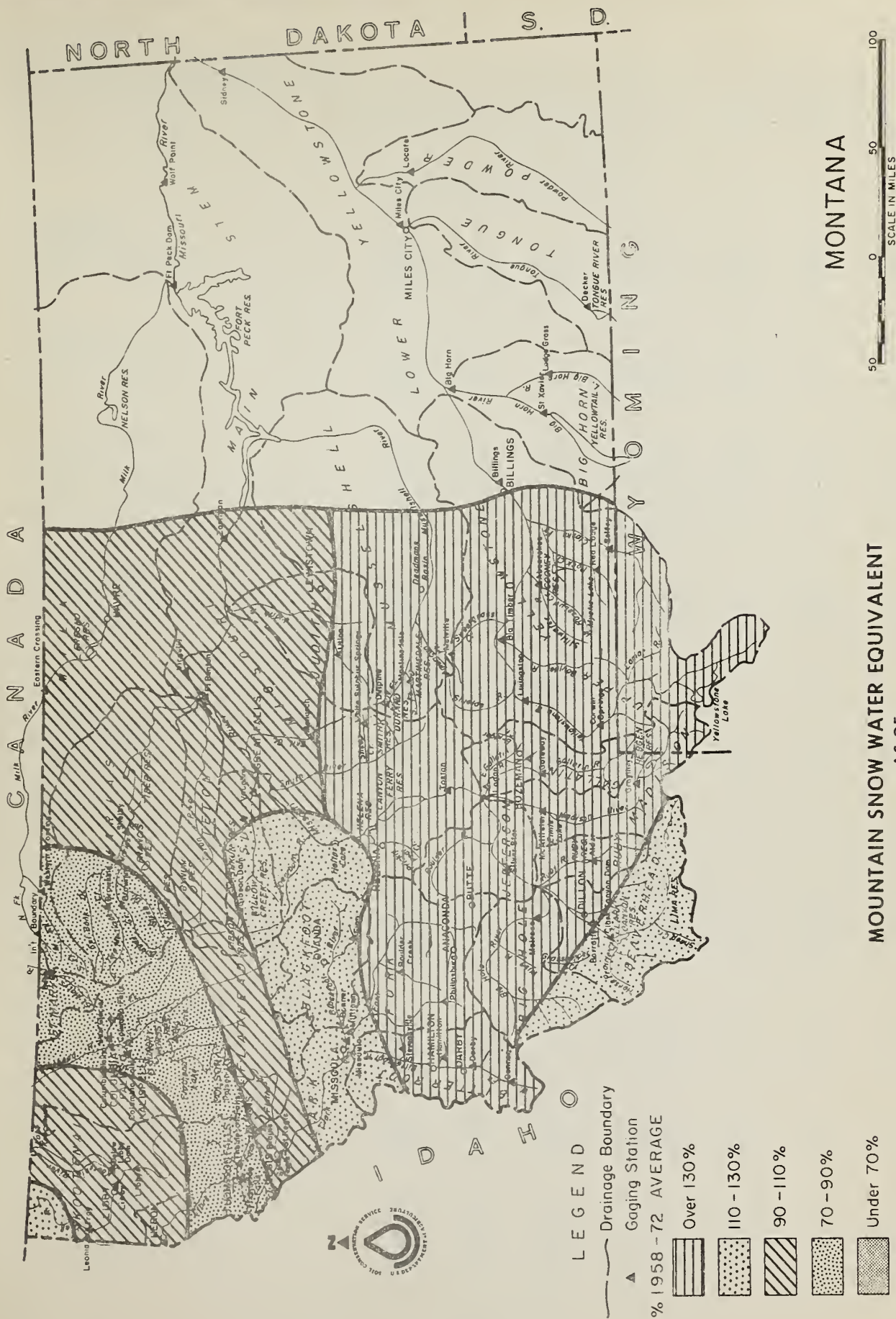


**SUMMARY of SNOW MEASUREMENTS** (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	4	110	115
Flathead	10	93	88
Upper Clark Fork	16	216	152
Lower Clark Fork	5	115	105
Bitterroot	6	162	138
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	13	172	128
Madison	8	222	146
Gallatin	9	162	143
Missouri Main Stem	7	178	145
Judith-Musselshell	2	147	141
Marias-Teton-Sun	5	113	91
Milk	1	81	56
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone (above Bighorn)	13	219	155
-3-			











# SOIL MOISTURE NOVEMBER 1, 1975

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +

## COLUMBIA RIVER BASIN

### Kootenai

Baree Trail	3800	48	7.5	11/2	6.7	2.4	5.4
Murphy Lake R. S.	3000	48	22.6	11/3	19.4	18.6	18.8
Raven	3050	48	23.0	11/2	14.4	12.1	16.3

### Flathead

Desert Mountain	5600	54	8.4	10/23	8.2	4.7	6.4
Marias Pass	5250	54	6.5	10/25	5.4	3.1	4.4

### Clark Fork

Black Pine	7100	48	10.0	10/31	8.7	7.4	7.8
Lubrecht Forest	4100	48	26.8	11/7	18.6	13.6	14.1
Seeley Lake R. S.	4030	48	11.9	11/5	10.6	4.0	4.4
Skalkaho Summit	7260	48	10.8	10/31	10.6	9.6	10.0

### Bitterroot

Gibbons Pass	7100	48	7.1	11/14	6.1	3.1	4.8
Lolo Pass	5250	48	10.6	10/31	7.8	2.8	5.1

## MISSOURI RIVER BASIN

### Beaverhead

Lakeview	6700	48	15.3	10/31	13.3	8.2	8.3
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### Madison

West Yellowstone	6700	48	6.5	11/1	2.4	1.8	2.7
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### Gallatin

Bridger Bowl	7250	48	17.0	10/30	14.9	15.0	15.4
College Site No. 2	4856	54	17.7	10/31	14.4	13.6	11.1
Lick Creek	6860	48	18.8	10/31	16.3	12.3	16.7
Twenty-One Mile	7150	48	10.0	10/31	4.3	3.2	5.1

### Missouri Main Stem

Kings Hill	7420	48	11.8	10/30	9.0	9.5	7.7
Stemple Pass	6350	48	5.9	10/31	5.6	3.1	3.9

### Milk

Beaver Creek	3950	48	20.9	10/30	8.9	7.6	7.5
Rocky Boy	4700	36	10.1	10/30	9.1	8.2	7.7

### Yellowstone

Battle Ridge	6020	48	17.6	10/30	12.9	8.4	11.6
Northeast Entrance	7350	48	9.4	11/2	6.0	4.0	6.5
PMC Dryland	3700	48	20.7	11/3	6.2	5.5	-



# SOIL MOISTURE DECEMBER 1, 1975

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

## COLUMBIA RIVER BASIN

### Kootenai

Baree Trail	3800	48	7.5	12/4	6.8	6.3	6.2
Murphy Lake R. S.	3000	48	22.6	12/2	19.4	18.8	19.2
Raven	3050	48	23.0	12/3	14.5	14.2	17.9

### Flathead

Desert Mountain	5600	54	8.4	-	-	-	-
Marias Pass	5250	54	6.5	11/25	5.8	3.8	4.8

### Clark Fork

Black Pine	7100	48	10.0	12/4	8.5	7.2	7.8
Lubrecht Forest	4100	48	26.8	12/8	24.0	13.8	14.4
Seeley Lake R. S.	4030	48	11.9	12/3	11.6	4.4	5.4
Skalkaho Summit	7260	48	10.8	-	-	9.4	-

### Bitterroot

Gibbons Pass	7100	48	7.1	12/5	6.0	3.4	4.8
Lolo Pass	5250	48	10.6	11/28	7.8	3.2	5.8

## MISSOURI RIVER BASIN

### Beaverhead

Lakeview	6700	48	15.3	11/30	12.1	8.2	9.2
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### Madison

West Yellowstone	6700	48	6.5	12/2	2.0	1.7	2.6
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### Gallatin

Bridger Bowl	7250	48	17.0	11/28	14.9	14.9	15.4
College Site No. 2	4856	54	17.7	11/28	16.5	15.2	12.9
Lick Creek	6860	48	18.8	-	-	12.9	16.1
Twenty-One Mile	7150	48	10.0	12/2	3.8	3.1	4.6

### Missouri Main Stem

Kings Hill	7420	48	11.8	12/2	8.5	7.7	7.4
Stemple Pass	6350	48	5.9	12/1	4.8	3.2	4.0

### Milk

Beaver Creek	3950	48	20.9	11/26	8.5	7.4	7.4
Rocky Boy	4700	36	10.1	12/1	8.5	9.4	7.8

### Yellowstone

Battle Ridge	6020	48	17.6	11/28	14.5	9.5	12.6
Northeast Entrance	7350	48	9.4	12/1	5.1	3.9	6.5
PMC Dryland	3700	48	20.7	12/1	5.9	7.7	-



# SOIL MOISTURE JANUARY 1, 1976

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

## COLUMBIA RIVER BASIN

### Kootenai

Baree Trail	3800	48	7.5	-	-	-	-
Murphy Lake R. S.	3000	48	22.6	1/2	19.5	19.2	19.4
Raven	3050	48	23.0	1/6	16.0	14.5	17.7

### Flathead

Desert Mountain	5600	54	8.4	12/29	8.6	5.8	6.9
Marias Pass	5250	54	6.5	12/20	6.3	3.9	4.8

### Clark Fork

Black Pine	7100	48	10.0	12/29	8.4	7.0	7.4
Lubrecht Forest	4100	48	26.8	12/29	23.7	13.7	13.7
Seeley Lake R. S.	4030	48	11.9	1/2	11.5	4.8	6.1
Skalkaho Summit	7260	48	10.8	-	-	9.5	-

### Bitterroot

Gibbons Pass	7100	48	7.1	12/30	6.0	3.4	4.6
Lolo Pass	5250	48	10.6	12/31	7.8	3.3	5.7

## MISSOURI RIVER BASIN

### Beaverhead

Lakeview	6700	48	15.3	12/31	11.9	8.2	9.2
----------	------	----	------	-------	------	-----	-----

### Madison

West Yellowstone	6700	48	6.5	12/30	2.0	1.7	2.6
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### Gallatin

Bridger Bowl	7250	48	17.0	12/31	14.7	15.0	15.6
College Site No. 2	4856	54	17.7	1/2	14.6	15.2	13.0
Lick Creek	6860	48	18.8	12/30	13.6	13.2	15.6
Twenty-One Mile	7150	48	10.0	12/30	4.1	3.1	4.4

### Missouri Main Stem

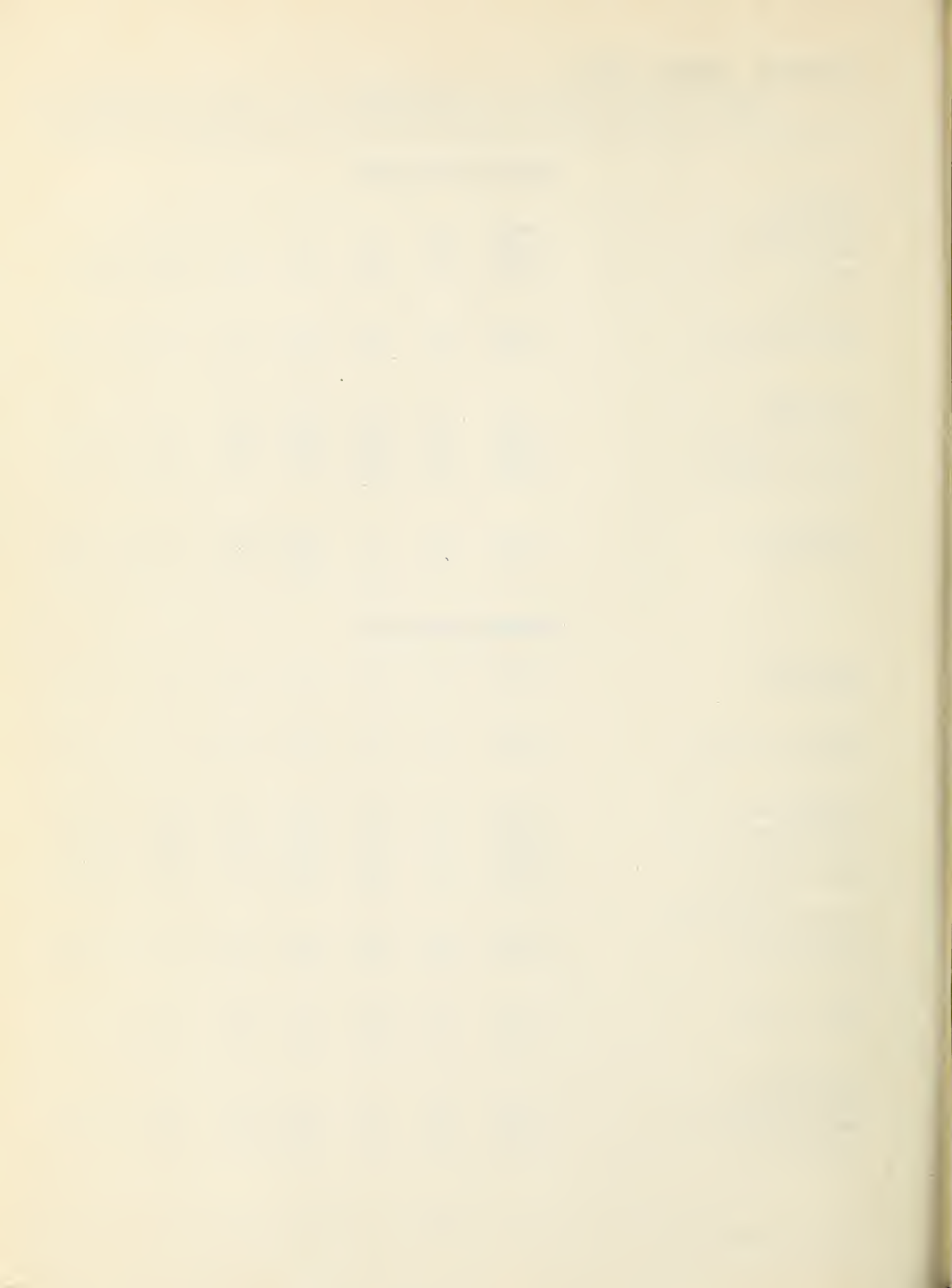
Kings Hill	7420	48	11.8	12/29	8.0	7.4	7.1
Stemple Pass	6350	48	5.9	12/31	5.3	3.4	3.9

### Milk

Beaver Creek	3950	48	20.9	12/22	8.7	7.5	7.4
Rocky Boy	4700	36	10.1	12/22	8.5	8.3	7.3

### Yellowstone

Battle Ridge	6020	48	17.6	12/31	12.9	8.8	12.5
Northeast Entrance	7350	48	9.4	12/29	5.1	3.7	6.2
PMC Dryland	3700	48	20.7	12/29	6.6	6.9	-





# RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average

## COLUMBIA RIVER BASIN

Kootenai	Koocanusa	5,694.0	3,734.0	2,922.0	-
Flathead	Hungry Horse	3,428.0	2,953.0	2,162.0	2,766.0
	Flathead Lake	1,791.0	1,462.0	1,479.0	1,423.0
	Camas (4)	45.2	16.6	16.8	22.1
	Mission Valley (8)	100.3	54.8	27.2	31.4
Clark Fork	Georgetown Lake	31.0	30.7	25.7	27.9
	Lower Willow Creek	4.6	3.8	1.1	1.1
	Nevada Creek	12.6		-	4.3
	Noxon Rapids	334.6	295.5	321.2	325.5
Bitterroot	Como	34.9		4.8	8.0
	Painted Rocks	31.7	23.2	0.0	23.5

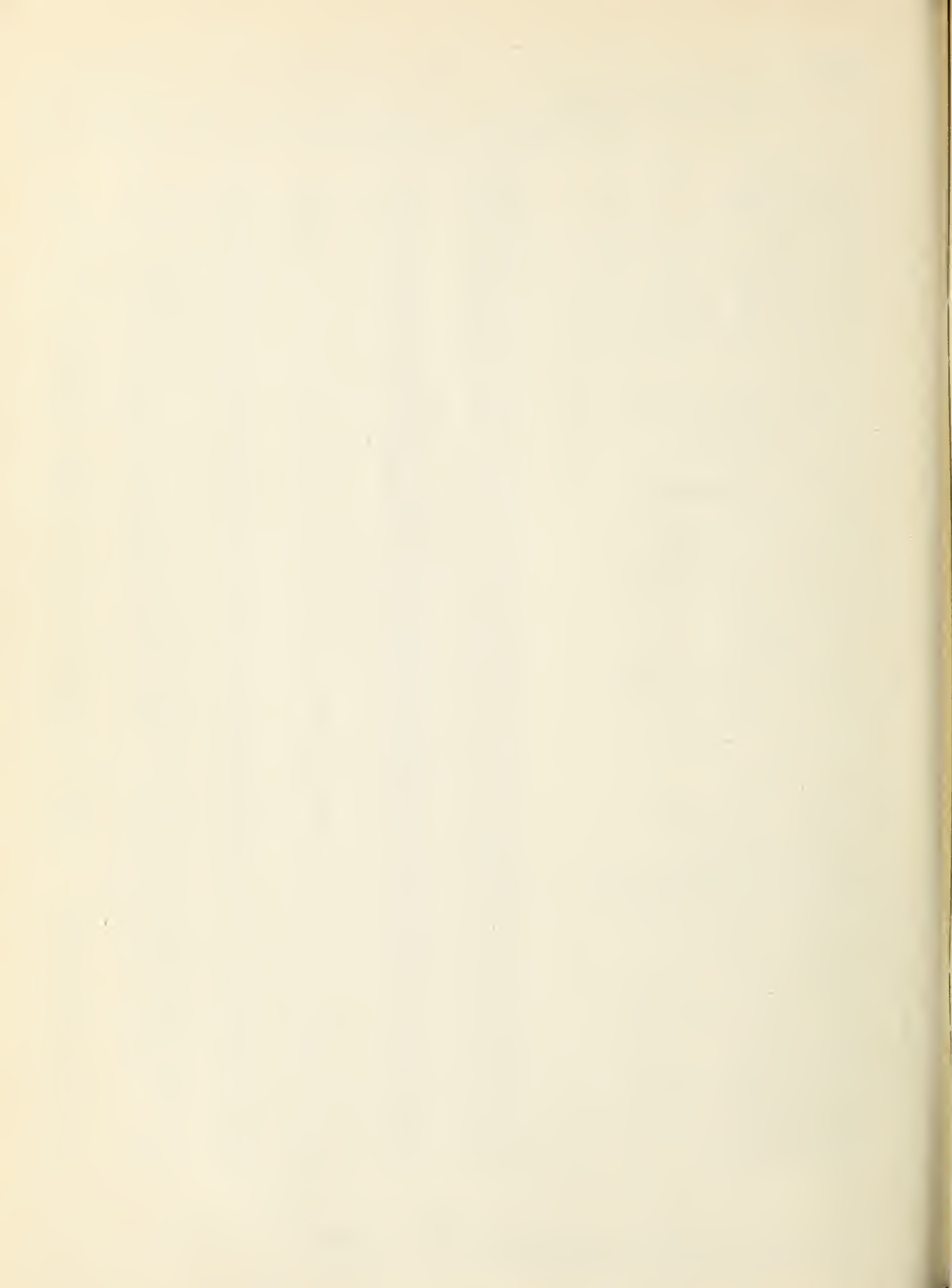
## MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.9	158.0	97.6	138.9
	Lima	84.0		41.7	31.2
Ruby	Ruby	38.8		-	20.0
Madison	Hebgen Lake	377.5	252.3	249.5	201.9
	Ennis Lake	41.0	35.2	33.9	36.7
Gallatin	Middle Creek	8.0	3.3	3.1	3.0
Missouri	Canyon Ferry	2,043.0	1,837.0	1,687.0	1,717.0
	Hauser & Helena	61.9	61.9	63.6	59.6
	Lake Helena	10.4	10.4	11.1	9.6
	Holter Lake	81.9	80.0	81.2	71.3
	Smith River	10.6	9.3	9.2	5.7
	Bair	7.0	5.3	5.9	4.0
	Martinsdale	23.1	17.5	14.7	7.6
	Deadman's Basin	72.2	54.4	44.4	41.2
	Fort Peck Lake	19,140.0	18,180.0	16,290.0	13,450.0
Sun	Gibson	99.0	65.1	56.3	36.9
	Willow Creek	32.2	26.9	24.2	18.6
	Pishkun	32.0	17.9	17.9	17.6
Marias	Lower Two Medicine	11.9		-	-
	Four Horns	19.2		-	12.3
	Swift	30.0	23.9	7.5	14.1
	Lake Frances	111.9	94.7	30.7	78.1
	Tiber	1,347.0	583.0	507.7	579.1
Milk	Beaver Creek	3.5	1.3	1.5	-
	Fresno	127.2	101.6	90.1	59.0
	Nelson	66.8	52.2	50.2	44.4
	Lake Sherburne	66.2	25.7	15.3	16.5
Yellowstone	Mystic Lake	21.0	12.6	9.6	14.1
	Tongue River	68.0		28.8	25.8
	Cooney	27.4	12.2	12.2	13.4
Bighorn	Bighorn Lake	1,356.0	914.8	909.2	880.8



# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average
NAME	Elevation					
ARCH FALLS	7350	12/30	34	9.5	6.7	5.5
BADGER PASS	6900	1/05	79	21.5A	17.0	21.2
BATTLE RIDGE	6020	12/31	18	5.2	2.2	3.0
BIG SKY	7700	1/01	37	9.1	-	-
BIG SPRINGS (ID)	6500	12/30	45	10.5	5.0	7.8
BLACK BEAR	7950	12/29	70	24.8	10.7	-
BLACK BEAR PILLOW	7950	12/29	SP	20.9	10.3	-
BLACK PINE	7100	12/29	32	9.0	3.7	3.4
BLACK PINE PILLOW	7100	12/29	SP	10.9	4.0	5.4
BLUE LAKE	5900	1/05	34	8.0A	10.0	11.8
BRIDGER BOWL	7250	12/31	61	17.8	7.8	12.0
BRIDGER BOWL PILLOW	7250	12/31	SP	16.8	7.5	13.2
BULL MOUNTAIN	6600	12/31	17	3.2	1.9	-
CAMP CREEK (ID)	6800	12/29	19	4.3	3.8	4.3
CANYON (WY)	7750	1/01	38	10.4	3.2	6.1
CHESSMAN RESERVOIR	6200	12/31	9	1.6	.8	1.3
COLE CREEK	7850	12/31	37	11.0	9.8	-
COLE CREEK PILLOW	7850	12/31	SP	9.9	8.7	-
COMBINATION	5600	12/29	12	3.0	.8	2.6
COMBINATION PILLOW	5600	12/29	SP	3.0	1.4	-
COOKE STATION	8150	12/29	45	14.0	6.0	-
COYOTE HILL	4200	1/02	24	5.0	3.8	4.5
DALY CREEK	5780	12/29	26	7.0	3.4	-
DEADMAN CREEK	6450	12/29	23	6.4	4.6	4.3
DEADMAN CREEK PILLOW	6450	12/29	SP	5.4	4.7	4.8
DESERT MOUNTAIN	5600	12/29	22	5.2	6.0	7.3
DEVILS SLIDE	8100	12/30	51	14.8	10.7	10.1
DISCOVERY BASIN	7050	12/29	27	7.4	-	-
DIX HILL	6400	12/31	30	6.4	2.6	-
EMERY CREEK	4350	12/29	19	4.6	-	-
FISHER CREEK	9100	12/29	75	26.2	10.8	14.4
FISHER CREEK PILLOW	9100	12/29	SP	24.0	11.7	14.8
FLEECER RIDGE	7500	12/31	34	8.4	3.2	-
FROHNER MEADOWS	6480	12/30	17	3.7	2.3	-
FROHNER MEADOWS PILLOW	6480	12/30	SP	4.7	2.4	-
GARVER CREEK PILLOW	4250	12/30	SP	4.4	4.8	4.8
GIBBONS PASS	7100	12/30	49	11.5	6.7	9.5
GRIZZLY PEAK	8400	12/31	35	10.3	9.5	8.7
HAWKINS LAKE PILLOW	6450	12/30	SP	18.5	14.5	13.3
HEBGEN DAM	6550	12/30	28	7.6	4.6	4.6
HELL ROARING DIVIDE	5770	12/30	41	11.6	19.2	14.1
HOLBROOK	4530	1/05	27	5.0A	5.0	4.3
HOOD MEADOW	6600	12/30	29	7.5	6.2	4.5
HOODOO BASIN PILLOW	6000	12/31	SP	23.4	18.1	19.1
ISLAND PARK (ID)	6310	12/30	40	8.8	4.4	6.1
KINGS HILL	7500	12/29	30	8.5	-	-
LAKE CAMP (WY)	7850	12/30	27	6.6	1.8	3.5
LAKE CREEK	6100	1/05	30	6.0	3.8	-



# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
					Last Year	Average
NAME	Elevation					
LAKEVIEW CANYON	6930	12/31	27	6.8	4.0	5.4
LAKEVIEW RIDGE	7400	12/31	25	6.0	3.6	5.0
LICK CREEK	6860	12/30	28	6.3	4.9	3.9
LICK CREEK PILLOW	6860	12/30	SP	5.7	4.9	4.0
LOLO PASS (ID)	5230	12/30	54	13.8	10.7	11.7
LONE MOUNTAIN	8880	1/01	51	14.9	8.0	-
LOOKOUT (ID)	5250	12/29	45	11.8	13.6	15.6
LOST HORSE	5940	12/31	71	17.4	11.1	12.0
LUBRECHT FLUME	4800	12/29	13	3.4	1.5	3.1
LUBRECHT FOREST # 3	5450	12/29	15	3.8	2.0	3.2
LUBRECHT FOREST # 4	4650	12/29	4	1.0	1.0	1.8
LUBRECHT FOREST # 6	4040	12/29	4	1.2	1.0	1.8
LUBRECHT HYDROPLOT	4200	12/29	11	3.5	1.6	2.7
LUPINE CREEK (WY)	7300	12/31	32	8.0	3.2	4.4
MADISON PLATEAU	7750	12/29	47	14.8	6.0	8.7
MADISON PLATEAU PILLOW	7750	12/29	SP	14.9	6.8	9.4
MARIAS PASS	5250	12/30	17	4.3	5.3	7.7
MAYNARD CREEK	6210	12/31	35	9.9	3.7	7.4
MAYNARD CREEK PILLOW	6210	12/31	SP	5.3	3.0	5.4
MEADOW CREEK PILLOW	4000	1/01	SP	.9	3.8	-
MOUNT LOCKHART	6400	1/01	44	13.6	-	-
MOUNT LOCKHART PILLOW	6400	1/01	SP	11.1	-	8.3
NOISY BASIN	6040	12/30	52	16.9	16.5	-
NOISY BASIN PILLOW	6040	12/30	SP	15.4	14.6	-
NOISY CREEK	3600	12/30	3	1.0	-	-
NORRIS BASIN (WY)	7500	1/01	30	7.7	2.5	4.6
NORTH FK. ELK CREEK	6250	12/31	32	7.4	2.9	5.6
NORTH FK. ELK CREEK PILL	6250	12/31	SP	8.1	3.1	4.7
NORTHEAST ENTRANCE	7400	12/29	26	6.6	2.6	3.6
NORTHEAST ENTRANCE PILL.	7400	12/29	SP	6.5	3.1	4.0
OLD FAITHFUL (WY)	7360	12/30	40	9.6	-	-
OPHIR PARK	7150	12/31	47	12.2	4.7	-
PETERSON MEADOWS	7200	12/29	31	6.9	3.2	-
PETERSON MEADOWS PILLOW	7200	12/29	SP	8.8	3.3	-
PICKET PIN LOWER	6200	1/03	10	2.0	1.7	-
PICKET PIN MIDDLE	7250	1/03	32	10.5	6.6	-
PICKET PIN UPPER	8100	1/03	47	17.0	11.0	-
PIPESTONE PASS	7200	1/02	21	5.6	3.1	2.3
POORMAN CREEK PILLOW	5100	12/30	SP	11.9	12.9	12.1
ROCKER PEAK	8000	12/29	37	10.4	4.9	6.8
ROCKER PEAK PILLOW	8000	12/29	SP	11.3	5.3	7.2
SADDLE MOUNTAIN	7940	12/30	57	16.1	8.6	10.3
SADDLE MOUNTAIN PILLOW	7940	12/30	SP	16.7	9.2	11.6
SAWTELL MOUNTAIN (ID)	8710	12/30	60	17.1	-	14.0
SHOWER FALLS	8100	12/30	55	15.5	11.7	11.0
SHOWER FALLS PILLOW	8100	12/30	SP	15.4	11.8	11.5
SPOTTED BEAR MOUNTAIN	7000	1/05	29	6.0A	7.5	7.2
SPUR PARK	8000	12/29	41	12.7	8.4	9.2
SPUR PARK PILLOW	8100	12/29	SP	13.2	9.2	10.2
STORM LAKE	7780	12/30	40	9.7	3.7	5.6



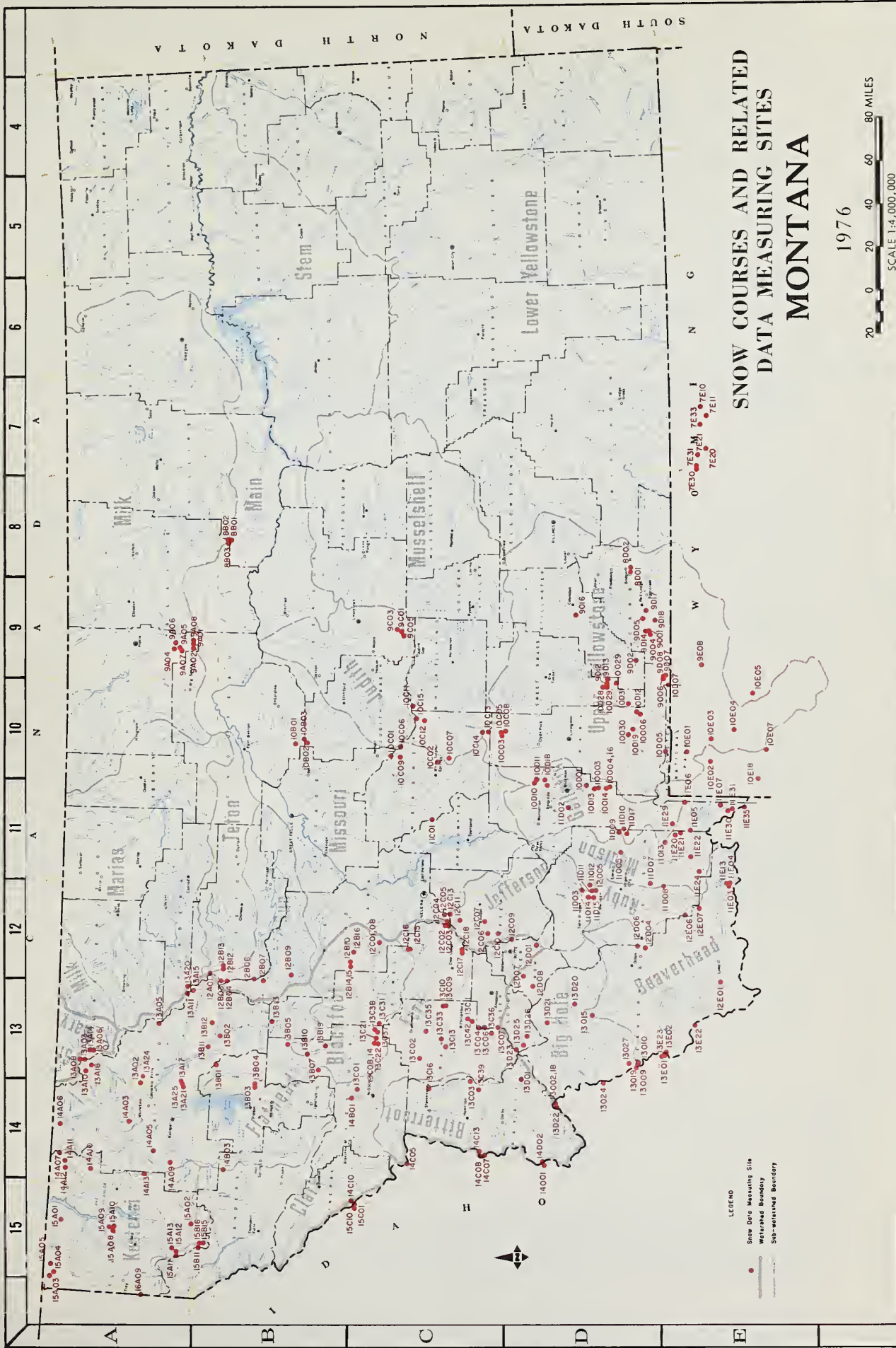


# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average
SYLVAN PASS (WY)	7100	12/29	37	10.0	3.5	5.7
TARGHEE PASS (ID)	7000	12/30	38	8.2	3.7	6.5
TEN MILE LOWER	6600	12/31	21	4.3	2.3	3.1
TEN MILE MIDDLE	6800	12/30	34	7.7	3.7	4.9
TEN MILE UPPER	8000	12/30	34	8.6	4.3	6.0
TEPEE CREEK	8000	1/05	48	9.6	6.2	-
TEPEE CREEK PILLOW	8000	1/05	SP	8.8	5.2	-
THUMB DIVIDE (WY)	7900	12/29	39	11.1	3.9	9.2
TV MOUNTAIN	6800	12/30	34	9.1	5.6	8.0
TWELVEMILE CREEK	5600	12/31	49	7.7	7.4	7.2
TWELVEMILE CREEK PILLOW	5600	12/31	SP	9.7	7.2	6.2
TWENTY-ONE MILE	7150	12/30	38	10.6	4.9	7.3
TWIN CREEKS	3580	1/05	24	5.0A	7.0	5.7
TWIN LAKES	6510	12/31	89	24.0	14.1	15.5
TWIN LAKES PILLOW	6400	12/31	SP	25.4	14.4	16.5
VALLEY VIEW (ID)	6500	12/30	38	7.8	3.5	6.3
WALDRON	5600	1/01	15	3.4	-	-
WALDRON PILLOW	5600	1/01	SP	4.3	3.6	5.2
WEST YELLOWSTONE	6700	12/30	35	8.6	3.3	4.6
WEST YELLOWSTONE PILLOW	6700	12/30	SP	6.6	2.1	3.8
WHITE ELEPHANT (ID)	7700	12/30	50	14.0	5.8	-
WHITE MILL	8700	12/29	62	20.8	7.6	-
WHITE MILL PILLOW	8700	12/29	SP	17.5	6.9	-
WILLOW CREEK	6500	12/31	23	5.4	3.3	-

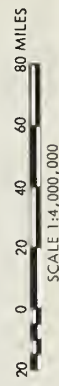






# SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

1976



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## SNOW COURSES

KOOTENAI 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## HUDSON

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## MISSOURI RIVER BASIN

BEAVERHEAD RIVER									
Stoney Dick	12010	7600	12	85	16W			5,P	3,4,5
Creek Creek	12004	7400	22	85	7W			P,HSG	11
Big Spring	12005	7400	22	85	7W			P,HSG	11
Dod Creek Lake	12022	8600	24	125	13W				3,4,5
Elk Horn Springs	12015	7800	21	45	12W				3,4,5
Gold Mine	12016	7800	21	45	12W				3,4,5
Lakeview	12020	7900	22	36S	2W				Monthly
Lakeview Canyon	12004	6900	26	145	2W			P,HSG	10
Lakeview Canyon	12005	6900	27	145	2W				1,2,3,4,5
Lakeview Canyon	12006	7400	27	145	2W				1,2,3,4,5
Lakeview Canyon	12007	7400	27	145	2W				3,4
Lakeview Canyon	12008	7400	27	145	2W				3,4
Lakeview Canyon	12009	7400	27	145	2W				3,4
Lakeview Canyon	12010	7400	27	145	2W				3,4
Lakeview Canyon	12011	7400	27	145	2W				3,4
Lakeview Canyon	12012	7400	27	145	2W				3,4
Lakeview Canyon	12013	7400	27	145	2W				3,4
Lakeview Canyon	12014	7400	27	145	2W				3,4
Lakeview Canyon	12015	7400	27	145	2W				3,4
Lakeview Canyon	12016	7400	27	145	2W				3,4
Lakeview Canyon	12017	7400	27	145	2W				3,4
Lakeview Canyon	12018	7400	27	145	2W				3,4
Lakeview Canyon	12019	7400	27	145	2W				3,4
Lakeview Canyon	12020	7400	27	145	2W				3,4
Lakeview Canyon	12021	7400	27	145	2W				3,4
Lakeview Canyon	12022	7400	27	145	2W				3,4
Lakeview Canyon	12023	7400	27	145	2W				3,4
Lakeview Canyon	12024	7400	27	145	2W				3,4
Lakeview Canyon	12025	7400	27	145	2W				3,4
Lakeview Canyon	12026	7400	27	145	2W				3,4
Lakeview Canyon	12027	7400	27	145	2W				3,4
Lakeview Canyon	12028	7400	27	145	2W				3,4
Lakeview Canyon	12029	7400	27	145	2W				3,4
Lakeview Canyon	12030	7400	27	145	2W				3,4
Lakeview Canyon	12031	7400	27	145	2W				3,4
Lakeview Canyon	12032	7400	27	145	2W				3,4
Lakeview Canyon	12033	7400	27	145	2W				3,4
Lakeview Canyon	12034	7400	27	145	2W				3,4
Lakeview Canyon	12035	7400	27	145	2W				3,4
Lakeview Canyon	12036	7400	27	145	2W				3,4
Lakeview Canyon	12037	7400	27	145	2W				3,4
Lakeview Canyon	12038	7400	27	145	2W				3,4
Lakeview Canyon	12039	7400	27	145	2W				3,4
Lakeview Canyon	12040	7400	27	145	2W				3,4
Lakeview Canyon	12041	7400	27	145	2W				3,4
Lakeview Canyon	12042	7400	27	145	2W				3,4
Lakeview Canyon	12043	7400	27	145	2W				3,4

Deadman Creek	1000
Elk Peak	1000
Frohner Meadows	1200

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TETON - PARIA RIVERS									
Badger Pass	13A15	6900	4	27N	11W	A		1,2,3,4,5	1
Blue Lake	13A20	5500	25	28N	11W	A		1,2,3,4,5	1
Clear Lake	13A25	5500	25	28N	11W	A		1,2,3,4,5	1
Fish-Hall	12B09	5700	25	20N	10W			3,4,5	2
Freight Creek	12A01	6000	13	26N	10W			3,4,5	1
Grass Lake	12B10	5500	25	28N	11W	A		1,2,3,4,5	1
Harriet Pass	13A05	5250	21	30N	13W	H		1,2,3,4,5	2
Mount Lockhart	12B12	6400	18	23N	9W	S,P		1,2,3,4,5,5h,6	2
Madison Creek	12B08	5700	22	23N	10W	S,P		1,2,3,4,5,5h,6	2
McCall Creek	12B06	5500	22	23N	10W	S,P		1,2,3,4,5,5h,6	2
Wong Ridge	12B03	6800	17	23N	10W			3,4,5	2
JUDITH RIVER									
Big Snowy	9C05	7150	25	12N	17E			3,4,5	1
Crestal Lake	9C01	6100	19	13N	18E			3,4,5	1
Rock Creek	9C03	5600	7	12N	18E		S,P	1,2,3,4,5h,6	1
Yellowstone Ranch	9C06	5300	17	13N	18E		P,HSC	Monthly	11
MUSSELSHELL RIVER									
Daisy Peak	10C15	7600	34	11N	11E			3,4,5	2
Leate Creek	10C13	7000	2	5N	10E			3,4,5	2
McCall Creek	10C14	6500	16	11N	12E			3,4,5	2
Johnson Park	10C12	6450	16	10N	11E			3,4,5	2
MULK RIVER									
Revere Creek	9A02	3950	21	28N	16E	H,HSC	Monthly		1,7
Bear Paw Ski Area	9A05	5200	21	28N	16E	P		1,2,3,4,5	1,7
Bozeler Creek	9A08	5100	24	28N	16E	P		1,2,3,4,5	1,7
Bozeler Creek	9A09	5100	24	28N	16E	P		1,2,3,4,5	1,7
KIM Springs	8B03	4150	9	25N	24E			3,4,5	5
Xionda Gap	9A06	3720	9	29N	16E	P,H,T		1,2,3,4,5	1,7
McCall Mountain	9A07	4200	22	28N	16E	P		1,2,3,4,5	1,7
Bonny Brook	9A01	4700	22	28N	16E	S,P,H		1,2,3,4,5	1,7
Sucker Creek	9A06	3960	11	29N	16E	P		1,2,3,4,5	1,7
Taylor Road	9A07	4080	19	29N	16E	P		1,2,3,4,5	1,7
UPPER YELLOWSTONE RIVER									
Bald Ridge	10C05	7500	11	4N	10E			3,4,5	1
Bozeler Creek	9B10	7150	35	7S	12E		H	1,2,3,4,5	1
Bota Sita	9B14	7350	35	7S	12E			3,4,5	1
Bray Canyon	10C31	6700	28	6S	12E			3,4,5	1
Bray Canyon	9B01	7890	2	6S	18E	P,HSC	Monthly	1,2,3,4,5,5h,6	1
Camp Senta	9B01	7890	2	6S	18E	P,HSC	Monthly	1,2,3,4,5,5h,6	1
Goat Creek	9B16	7850	26	2S	19E		S,P	1,2,3,4,5,5h,6	1,2
Goat Creek	9B16	7850	26	2S	19E		S,P	1,2,3,4,5,5h,6	1,2
Goat Station	9B07	8130	19	9S	13E			3,4,5	2
Greiner Mountain	10C05	8400	22	9S	9E		S,P	1,2,3,4,5,5h,6	2
Grass Lake	9B05	8400	24	9S	19E			1,2,3,4,5,5h,6	1,2
Grassy Fork	9B06	8400	24	9S	19E			1,2,3,4,5,5h,6	1,2
Independence	10C06	7850	21	7S	12E	P		3,4,5	1
McCall Creek	10C03	8800	16	7S	12E	P		3,4,5	1
McCall Creek	10C03	8800	16	7S	12E	P		3,4,5	1
Northwest Entrance	10C07	7400	33	9S	14E	S,P,H		1,2,3,4,5,5h,6	1,6
Pilot Pin Lower	9B13	8200	1	5S	14E	P		1,2,3,4,5	13
Pilot Pin Upper	9B13	8200	1	5S	14E	P		1,2,3,4,5	13
Pike Pin Upper	10C28	8100	32	4S	14E	P		1,2,3,4,5	13
PNC Dryland	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
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Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
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Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	3700	35	6S	23E	H,HSC	Monthly		1
Pine Point	9B02	37							

3/ Numerals refer to agency making the snow surveys as follows:  
precipitation gauge and soil moisture are read monthly.

1. Soil Conservation Service
2. Forest Service
3. Geological Survey
4. Montana Power Company
5. Bureau of Indian Affairs
6. National Park Service
7. NPS Agricultural Experiment Station
8. University of Montana School of Forestry
9. Department of Energy, Mines and Resources
10. Bureau of Sport Fisheries and Wildlife
11. Wildlife Commission
12. Montana Department of Conservation Districts
13. Montana Department of Fish and Game

# Agencies and Organizations Cooperating in Montana Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Water Survey of Canada, Calgary, Department of the  
Environment  
Water Resources Service, Department of Lands, Forests  
and Water Resources, British Columbia

### Federal:

Department of the Army  
Corps of Engineers  
U.S. Department of Agriculture  
Forest Service  
Soil Conservation Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of the Interior  
Bonneville Power Administration  
Bureau of Indian Affairs  
Bureau of Reclamation  
Fish and Wildlife Service  
Geological Survey  
National Park Service

## STATE

Montana Association of Conservation Districts  
Montana Department of Fish and Game  
Montana Department of Natural Resources and  
Conservation  
Montana State University - Agricultural Experiment  
Station  
University of Montana - School of Forestry

## PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable  
information for snow survey reports. Their cooperation  
is gratefully acknowledged.



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with the Snow Survey"*

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